

**REMARK****Status of the Claims:**

Claims 1-14 and 16-20 are pending in the present application.

In the Office Action, claim 17 was objected to and claims 17-20 were rejected.

Also in the Office Action, claims 1-14 and 16 were allowed, and claims 17-20 were indicated as allowable if rewritten or amended to overcome the rejections under 35 U.S.C. §112, ¶2 set forth in the Office Action.

Applicants take this opportunity to thank the Examiner for the indication of allowable subject matter.

By the present amendment, Applicants have amended claims 17-20.

No new matter has been presented. Reconsideration of the above-identified application in view of the foregoing amendments and the following remarks is respectfully requested.

**Objections to the Drawings:**

In the Office Action, the drawings were objected to as allegedly not showing every feature specified in the claims. In particular, the Office Action has required that “the step of synchronizing, as recited in claim 1, [and] the means configured to synchronize, as recited in claim 17, and claim 18, must be shown or the feature(s) canceled from the claim(s).” (Office Action, p. 2)

Applicants have amended FIG. 3 to include a “step of synchronizing, as recited in claim 1”. Claim 1 recites “synchronizing the apparatus to the multi-carrier transmission bursts by finding the index of received symbols based on the pilot carrier position”. Thus, the claimed synchronization depends upon a pilot carrier position. In the specification, the pilot carrier position is determined in step 307 of FIG. 3. (See, e.g., Published Application, p. 8, lines 32 – p.

9, line 5) In addition, synchronization time is described in the specification as “until the Channel Estimation” (CHE), which occurs in step 308 of FIG. 3. (See, e.g., Published Application, p. 8, line 28) Hence, Applicants respectfully submit that there is support in the specification for adding the step of “synchronization” to FIG. 3 between step “307” and “CHE 308”. Accordingly, Applicants have amended FIG. 3 to include a synchronization step between “307” and “CHE 308”, have identified this step in FIG. 3 using reference element 307A, and have amended the specification to include therein an association of the step of synchronization with reference element 307A. Applicants have submitted herewith a revised drawing sheet for FIG. 3. It has been labeled with the indicia “REPLACEMENT SHEET” in accordance with 37 C.F.R. §1.121(d).

With respect to claims 17 and 18, Applicants note that claim 18 has been amended herein to eliminate the use of “means-plus-function” language, and thus, no longer recites “means for synchronizing”.

Applicants respectfully submit that “Multi-carrier Signal Receiver 1001” and “Processing Unit 1003”, both shown in FIG. 10, together, correspond to the recited “means for synchronizing”. In addition, “Decision Block 909” in FIG. 9, can contribute to the synchronizing function so that the system can proceed with channel estimation 910. (See, e.g., Published Application, p. 16, lines 26-27: “Still referring to the Fig. 9, the decision block (909) can be coupled with the channel estimation (CHE) (910) possibly to continue in the receiving process.”)

In view of the foregoing, Applicants respectfully request that the objections to the drawings be withdrawn.

**Objections to the Claims:**

In the Office Action, claim 17 was objected to because of various informalities. (Office Action, p. 3) In particular, the Office Action has requested that “A system” be inserted and that the phrases “configured to receive”, “configured to establish”, “configured to correlate” and “configured to synchronize” be replaced by “for receiving”, “for establishing”, “for correlating” and “for synchronizing”, respectively. Applicants have amended claim 17 in that regard, and thus, respectfully request that the objections be withdrawn.

**Rejections Under 35 U.S.C. §112, ¶2:**

In the Office Action, claims 17 and 18 were rejected under 35 U.S.C. §112, ¶2, as allegedly being indefinite for failing to particularly point out and distinctly claim the subject matter that Applicants regard as the invention. (Office Action, p. 3-4) In both instances, the Examiner has indicated that he “is unable to find the structure corresponding to the means for synchronizing.”

As an initial matter, Applicants note that claim 18 has been amended herein to eliminate the use of “means-plus-function” language, and thus, no longer recites “means for synchronizing”.

Applicants respectfully submit that “Multi-carrier Signal Receiver 1001” and “Processing Unit 1003”, both shown in FIG. 10, together correspond to the recited “means for synchronizing”. In addition, “Decision Block 909” in FIG. 9, can contribute to the synchronizing function so that the system can proceed with channel estimation 910. (See, e.g., Published Application, p. 16, lines 26-27: “Still referring to the Fig. 9, the decision block (909) can be coupled with the channel estimation (CHE) (910) possibly to continue in the receiving process.”)

Accordingly, Applicants respectfully submit that claims 17 and 18 are not indefinite, and thus, respectfully request that the foregoing rejections be withdrawn.

**Dependent Claims:**

Applicants do not believe it necessary at this time to address the rejections of the dependent claims as Applicants believe that the foregoing places the independent claims in condition for allowance. Applicant, however, reserves the right to address those rejections in the future should such a response be deemed necessary and appropriate.

**CONCLUSION**

Based on the foregoing amendments and remarks, Applicants respectfully request reconsideration, withdrawal of the claim objections/rejections and allowance of this application.

**AUTHORIZATION**

The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. 504827, Order No. 1004289-266US.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No 504827, Order No. 1004289-266US.

Respectfully submitted,  
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